

Kathy - since this is draft it's FYI only -
not for site file.

CBUSF 51101

-Allison

Comments
11-7
Monday

Chuck Clarke
XXXXXXXXXXXXXXXXXXXX
Director



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

2722 Cleanwater Lane, LU-11 • Olympia, Washington 98504-6811 • (206) 753-2353

August 25, 1992

AUG 26 1992

Ms. Lori Cohen
U.S. Environmental Protection Agency
1200 6th Avenue, HW-113
Seattle, WA 98101-3188

Dear Ms. Cohen:

Re: Draft Milestone 1 Source Control Status Report for Head of Hylebos Problem Area:
Commencement Bay Nearshore/Tideflats Superfund Site

I have enclosed the draft Milestone 1 Report for the Head of Hylebos Waterway Problem Area at the Commencement Bay Nearshore/Tideflats (CBN/T) Superfund Site. For the purpose of identifying potential sources of problem chemicals, EPA and Ecology define the "Head of Hylebos Waterway" as that portion of the Hylebos Waterway southeast ("upstream") of Lincoln Avenue. The report contains a table that identifies all ongoing potential sources of problem chemicals (List 1), all probable sources (List 2), and all confirmed sources (List 3). All lists are included on the same table. In addition, List 3 sites are also printed separately (last two pages). A map is also enclosed with numbered locations for each site.

In deciding how to list facilities, Ecology used the source identification process described in the EPA document titled: "Source Control Strategy: Commencement Bay Nearshore/Tideflats Superfund Site (May, 1992)." The listing process was designed to determine which sites located on the Head of Hylebos are sources of problem chemicals. The problem chemicals used were those identified on the attached tables for both the Mouth and the Head of the Hylebos. "Problem chemicals" are those which have been found in Hylebos sediments above levels considered harmful to biota and human health and are listed in EPA's Record of Decision for the Commencement Bay Nearshore/Tideflats Superfund site.

List 1 includes all parties on the Head of Hylebos who were issued a General Notice Letter by EPA and other parties immediately adjacent to the Head of Hylebos Waterway. In addition, List 1 includes other potentially significant contributors of problem chemicals to the Head of Hylebos Problem Area via storm drains. List 2 excludes some List 1 sites based on information obtained from file searches and site visits. List 3 sites are confirmed sources, normally based on analysis of samples for contaminants in soil, sediment, groundwater, or surface water. In a few cases facilities appear on

USEPA SF



1431486

Ms. Lori Cohen
Page 2
August 25, 1992

List 3 due to the presence of activities known to contribute contaminants (like boat washing without adequate best management practices in place).

A few facilities may be removed from List 3 if investigations performed by the facilities convince Ecology that they do not contribute problem chemicals to the Hylebos Waterway. In addition, a few facilities may be added to List 3 based on new information.

Ecology identified 49 potential sources for List 1, 25 probable sources for List 2, and 15 confirmed sources for List 3.

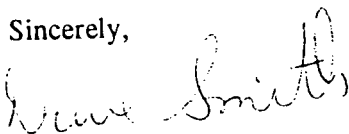
Hylebos Creek and Fife Ditch are on List 3 for arsenic. This determination is based on data collected by Ecology, the City of Tacoma, and the Tacoma-Pierce County Health Department (TPCHD) on problem chemicals associated with particulates centrifuged out of the water at the mouth of the creek. Major sources of arsenic loading to the creek will be controlled by 1994 (Wasser Winters, Louisiana Pacific, and B&L Landfill). An additional possible source of arsenic is the BPA Occidental site that drains to Fife Ditch -- the site is shown as a possible List 3 site pending analysis of samples taken in August (results are due by 9/20/92). We also recommend remediating Fife Ditch near the mouth of the ditch.

We would like to stress that our assessment of the Hylebos Creek as a potential source of problem chemicals to Hylebos Waterway Problem Area does not apply to the creek itself or to pollutants that are not problem chemicals to the Hylebos Waterway Problem Area. The creek has also suffered from conventional pollution, which is not the current focus of UBAT efforts.

The TPCHD has been implementing a program to monitor potential sources of contamination to Hylebos Creek and Fife Ditch and to educate businesses on needed source control measures. TPCHD will notify the Commencement Bay Water Quality Protection Committee if they believe regulatory action is needed on facilities where education is not working. Ecology and/or other entities will then try to find resources available to address the problem.

Ecology may refine List 3 as a result of new information. I will seek EPA's advice when any such changes are proposed by Ecology, and may also include revised Milestone 1 Lists in subsequent Milestone Letter Reports.

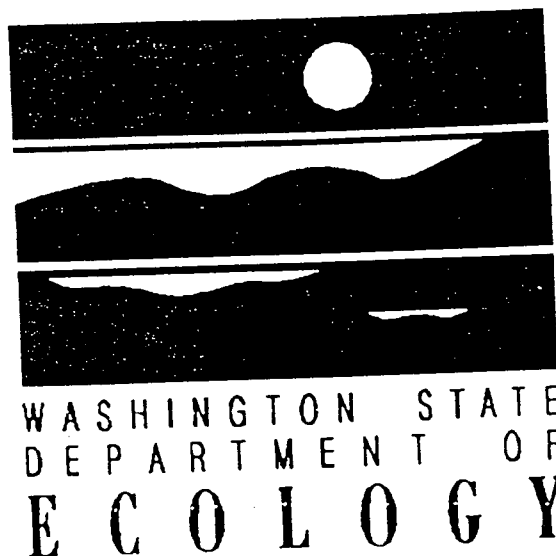
Sincerely,



Dave Smith
Unit Supervisor
Toxics Cleanup Program

DS:km
Enclosure

8/25 Draft



**Commencement Bay Nearshore/Tideflats
Head of Hylebos Waterway
Source Control Status Report:
Milestone 1**

Washington State Department of Ecology
Toxics Cleanup Program - SWRO
Urban Bay Action Team

September 1992

PROBLEM CHEMICALS IN
HEAD OF HYLEBOS WATERWAY

Priority 1	Polychlorinated biphenyls (PCBs) High molecular weight polycyclic aromatic hydrocarbon (HPAH) Arsenic Zinc
Priority 2	Copper Antimony Lead Nickel Mercury Tetrachloroethene Phenol
Priority 3	Methylpyreneb Methylphenanthreneb Dibenzothiopheneb Ethylbenzene Xylene Chlorinated benzenes Chlorinated butadienes Bis (2-ethylhexyl) phthalate Benzyl alcohol An alkylated benzene isomerb,c

Note: The Head of Hylebos Problem Area is comprised of Segments 1 and 2 as described in the RI (see Figure 12 of the ROD).

- a Bis (2-ethylhexyl) phthalate was the only phthalate ester identified as a Priority 3 chemical for the Head of Hylebos Problem Area in the FS Source Evaluation Refinement Report (pp. 28-34), although some text broadly refers to "phthalate esters" as Priority 3 chemicals (e.g., p. 6.34 of the RI and p. 19 of the FS Source Evaluation Refinement Report).
- b Additional information on these tentatively identified compounds are discussed on pp. 41-52 of the FS Source Evaluation Refinement Report.
- c In the FS Source Evaluation Refinement Report (p. 21), the alkylated benzene isomer was tentatively identified as a cymene isomer [e.g., 1-methyl(4-methylethyl)benzene and 1-methyl(2-methylethyl)benzene].

PROBLEM CHEMICALS IN
MOUTH OF HYLEBOS WATERWAY

Priority 1

PCBs

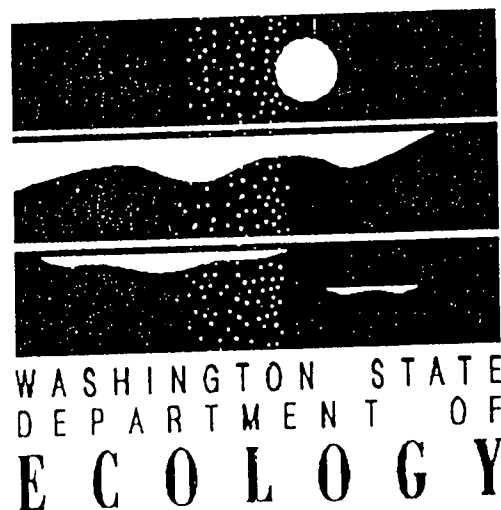
Priority 2

Hexachlorobenzene
Trichloroethene
Tetrachloroethene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
Hexachlorobutadiene
Pentachlorocyclopentane isomera
Lead

Priority 3

HPAH
Low molecular weight polycyclic
aromatic hydrocarbon (LPAH)
Methylphenanthrene_{b,c}
Methylpyrene_{b,c}
Biphenyl
Phenol
Benzyl alcohol
Copper
Zinc
Mercury

- a The pentachlorocyclopentane isomer, a tentatively identified compound, is discussed in the RI (p. 7.73). [EPA/Ecology Only - On November 26, 1991, Lucinda Jacobs said that PTI was unable to find the GC/MS chromatogram for this compound, which means that EPA would not be able to re-analyze for this compound (e.g., during sediment remedial design sampling) and confirm its presence or absence. Also, she said that the compound probably co-varies with other chemicals (e.g., chlorinated butadienes); thus, if we cleanup other chemicals, we will probably cleanup this chemical.]
- b Methylphenanthrene and methylpyrene were not listed as Priority 3 chemicals in the RI (Table 6.14, p. 6.35) or the FS Source Evaluation Refinement Report (p. 21); however, supporting text in the latter report (pp. 48-52) identifies these two compounds as Priority 3 chemicals.
- c Additional information on these tentatively identified compounds are discussed on pp. 41-52 of the FS Source Evaluation Refinement Report.



**HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE**

List of Potential, Probable, and Confirmed Sources

(Lists 1, 2 and 3)

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE(a)
Potential, Probable, and Confirmed Sources(b)

Page 1
8/24/92

Map No.	List 1 (Potential Sources)	List 2 (Probable Sources)	List 3 (Confirmed Sources)	Reason Site is Not on List 3	Comments/Notes
7	3009 Taylor Way (see Elf Atochem Log Yard)	x	x		Formerly Dunlap Towing.
1	APUTCO 1630 Marine View Drive Tacoma, WA 98422			Problem chemicals not identified.	Formerly Republic Supply Co. Entire operation moves to Alaska May-November every year.
8	Atochem (See Elf Atochem Main Facility)	x	x		
11	B & L Construction and Trucking (See Fjetland Property)			Listed under Fjetland Property.	Drains to Hylebos Creek.
2	B & L Landfill Milton, Washington	x	x		MTCA cleanup site in Milton. Cleanup construction started 7/13/92. Drains to Hylebos Creek.

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE(a)
Potential, Probable, and Confirmed Sources(b)

Page 21
8/24/92

	Map : List 1 No. : (Potential Sources)	List 2 (Probable Sources)	List 3 (Confirmed Sources)	Reason Site is Not on List 3	Comments/Notes
3	Blair Backup Property Puyallup Land Settlement Agreement Property	x	x		Includes former Cascade Timber Log Yard #2 site. EPA Cleanup Action Plan proposed for winter, 1992.
32	Bonneville Power Admin. (BPA) 3702 Alexander Avenue Tacoma, WA 98421	x	pending	Discharges to Fife Ditch, a tributary to Hylebos Creek. See Fife Ditch.	Also listed as Occidental - BPA sludge site. Pending lab results will determine if site is on List 3.
/	Cascade Timber Log Yard #2 (see Blair Backup Property)			Listed under Blair Backup Property.	
*	City of Tacoma Storm Drains (multiple locations-incl. Morningside Drain)	x		Average particulate data for Morningside Drain and other city drains show no exceedances of sediment cleanup objectives for Hylebos Waterway. Ecology enforcement not needed at this time.	Water and sediment samples taken by Ecology, City of Tacoma, TPCHD. City of Tacoma applied for municipal NPDES stormwater permit 5/92. Water quality standards exceeded in some cases.
4	City of Tacoma Substation Alexander Avenue			Drains to Blair Waterway.	

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
 COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE(a)
 Potential, Probable, and Confirmed Sources(b)

Page 3
 8/24/92

Map	List 1	List 2	List 3	Reason Site is Not on List 3	Comments/Notes
No.	(Potential Sources)	(Probable Sources)	(Confirmed Sources)		
/	Commencement Bay Fisheries (address not found)			No address found. Site could not be located.	
5	Coski Landfill 5403 Pendle Lange Rd. Tacoma, WA 98422	X		Sampled. Existing information for drainage downstream from site indicates that an enforcement action for source control is not needed at this time.	Sediment samples taken in drainage behind/above Manke Lumber were clean. Earlier samples taken from seeps on the ravine directly below the site contained PCBs. Site is on state Hazardous Sites List.
7	Dunlap Towing (see Elf Atochem Log Yd.)			Site is now known as Elf Atochem Log Yard.	
6	Dyno Overlays 2340 Taylor Way Tacoma, WA 98421			Drains to Blair Waterway.	On same land as Reichold Chemicals.
/	E.M. Haub (address not found)			No address found. Could not be located.	

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE(a)
Potential, Probable, and Confirmed Sources(b)

Page 4
8/24/92

Map	List 1	List 2	List 3	Reason Site is Not on List 3	Comments/Notes
No.	(Potential Sources)	(Probable Sources)	(Confirmed Sources)		
7	Elf Atochem Log Yard 3009 Taylor Way Tacoma, WA 98421	X	X		A.K.A: Dunlap Towing, 3009 Taylor Way Site, Echo Lumber. MTCA cleanup action construction started 6/92.
8	Elf Atochem Main Facility 2901 Taylor Way Tacoma, WA 98421	X	X		Formerly Pennwalt, Atochem. Pre-MTCA cleanup site. Cleanup facility construction 90% complete as of 7/92.
9	Fields Products 2240 Taylor Way Tacoma, WA 98421			Drains to Blair Waterway.	
10	Fife Ditch	X	X		Enters Hylebos Creek just upstream of mouth. Elevated arsenic in particulates. Occidental- BPA site may be a source (status pending lab data).
11	Fjetland Property 1621 Marine View Drive Tacoma, WA 98422			Drains to Hylebos Creek. See Hylebos Creek.	A.K.A. Earth Enterprises, B & L Construction and Trucking, Portside Recyc., Executive Bark. Drains to Hylebos Creek just upstream of mouth. TPCD/City are taking action re: non-hazardous substances.

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
 COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE(a)
 Potential, Probable, and Confirmed Sources(b)

Page 5
 8/24/92

Map	List 1	List 2	List 3	Reason Site is Not on List 3	Comments/Notes
No.	(Potential Sources)	(Probable Sources)	(Confirmed Sources)		
12	Foran Site 1635 Marine View Drive Tacoma, WA 98422			Drains to Hylebos Creek. See Hylebos Creek.	TPCHD permit. Site runoff flows to Hylebos Creek just upstream from mouth.
13	General Metals, Inc. 1902 Marine View Drive Tacoma, WA 98422	x	x		Phase one MTCA cleanup construction started 7/92. NPDES permit in effect for stormwater treatment system.
24	Glacier Sand and Gravel (see Lone Star Ind.)			Now Lone Star Industries.	
14	Grice Demolition Landfill 25th Street NE and 62nd Avenue, Tacoma	x		Problem chemicals not identified in sediments in downstream site drainage.	Sediment sample taken in ravine behind Jones Chemical was not above sediment cleanup objectives. Ravine has input of sediments from gravel pit activities. City has cleaned up non-hazardous materials.
15	Harbor Service 1940 Marine View Drive Tacoma, WA 98422			Problem chemicals not identified.	Leases from Hylebos Marina.

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE(a)
Potential, Probable, and Confirmed Sources(b)

Page 6
8/24/92

: Map : List 1		: List 2	: List 3	: Reason Site is Not on List 3	: Comments/Notes
: No. : (Potential Sources)		: (Probable	: (Confirmed	:	:
:		: Sources)	: Sources)	:	:
: / : Hydro Systems Engineering		:	:	: Site not found.	: Site listed on EPA CBN/T Feasibility Study
:		:	:	:	: Figure 5.1 as combined with Modutech Marine.
:		:	:	:	: It does not now exist at that location.
:		:	:	:	:
: 16 : Hylebos Boat Haven		:	:	: Marina only. No upland uses or boat	:
: : Next to Hylebos Marina		:	:	: maintenance area.	:
: : to the east.		:	:	:	:
:		:	:	:	:
: 17 : Hylebos Creek		: x	: x	:	: Particulates in water do not show problems
: : (Excluding Fife Ditch)		:	:	:	: except for moderate and occasional
:		:	:	:	: exceedances of the sediment cleanup objective
:		:	:	:	: for arsenic. Problem chemicals not expected
:		:	:	:	: after cleanup at 3 MTCA sites.
:		:	:	:	:
: 18 : Hylebos Marina		: x	: x	:	: Formerly Yacht Doctor. Mather Auctioneers,
: : 1940 Marine View Drive		:	:	:	: Knapp Boatbuilding on adjacent leased
: : Tacoma, WA 98422		:	:	:	: parcels. Boat wash discharges to waterway via
:		:	:	:	: settling system. Small Boatyard Permit is
:		:	:	:	: needed.
: / : Indian Fish Company		:	:	: See Hylebos Marina (Mather Auctioneers).	:
:		:	:	:	:
:		:	:	:	:
:		:	:	:	:

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE(a)
Potential, Probable, and Confirmed Sources(b)

Page 7
8/24/92

Map	List 1	List 2	List 3	Reason Site is Not on List 3	Comments/Notes
No.	(Potential Sources)	(Probable Sources)	(Confirmed Sources)		
/	Johnson Engineering			Site is now Modutech Marine.	
19	Jones Chemicals, Inc. 1919 Marine View Drive Tacoma, WA 98422	x		Sediments sampled. Problem chemicals not identified in samples downstream from site.	Samples from refuse pile on property exceeded sediment cleanup objectives, but downstream samples did not show problems. Refuse pile removed April, 1992.
20	Jones-Goodell Corp. 1690 Marine View Drive Tacoma, WA	x	x		Spent sandblast grit behind bulkhead leaking to waterway. Boat wash wastewater drains to sanitary sewer. Small Boatyard Permit is needed.
21	Julia's Gulch no street address			Problem chemicals not identified above sediment cleanup objectives.	Catch basin samples taken behind Jones Chemical. Grice Landfill and Woodworth Gravel pit drain through this ravine. Large sediment input from gravel pit.
22	Kaiser Aluminum and Chemical Corp. 3400 Taylor Way Tacoma, WA 98421	x	x		Upgraded NPDES permit being implemented. MTCA cleanup almost complete. Includes Kaiser Ditch.
23	Knapp Boatbuilding (See Hylebos Marina)			Problem chemicals not identified.	Located on land leased from Hylebos Marina. There appears to be several independent lessees on the site. Knapp building appears to be inactive. May need to be included w/Hylebos Marina permit.

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE(a)
Potential, Probable, and Confirmed Sources(b)

Page 8
8/24/92

Map No.	List 1 (Potential Sources)	List 2 (Probable Sources)	List 3 (Confirmed Sources)	Reason Site is Not on List 3	Comments/Notes
24	Lone Star Industries 3601 Taylor Way Tacoma, WA 98421	x		Problem chemicals not identified.	Formerly Glacier Sand and Gravel.
25	Louisiana Pacific Log Yard 3825 Taylor Way Tacoma, WA 98421	x	x		MTCA cleanup site. Cleanup Action Plan issued by 9/92.
26	Louisiana Pacific Sawmill 3701 Taylor Way Tacoma, WA 98421			Problem chemicals not identified.	
27	Manke Lumber Company, Inc. 1717 Marine View Drive Tacoma, WA 98422	x	x		Manke has dip tank wood treatment facility. Ecology Water Quality Program will write individual stormwater NPDES permit. Truck wash area drains to sanitary sewer.
20	Marine Metal Manufacturing 1690 Marine View Drive Tacoma, WA 98421			Same site as Jones-Goodell.	Figure 5-1 in CBN/T Feasibility Study shows wrong location. It is a part of Jones-Goodell Corp.
20	Marine Supply/Marine Metals 1690 Marine View Drive Tacoma, WA 98421			Retail store at Jones Goodell.	Figure 5-1 shows this as on the north next to Jones-Goodell, but is incorrect. Site to the north is now part of Manke Lumber. (1983 photo shows much sandblast grit)

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE(a)
Potential, Probable, and Confirmed Sources(b)

Page 9
8/24/92

		List 2	List 3	Reason Site is Not on List 3	Comments/Notes
Map	List 1				
No.	(Potential Sources)	(Probable Sources)	(Confirmed Sources)		
28	Mather Auctioneers Marine View Drive Tacoma, WA 98421			No problem chemicals identified.	Property leased from Hylebos Marina.
/	Milgard Mfg./Tempering 1010-54th Avenue East Fife, WA 98411-0368			Discharges to Fife Ditch. See Fife Ditch.	TPCHD study included this site. Also sampled by Ecology. Discharges process wastewater to Fife Ditch.
29	Modutech Marine, Inc. 2218 Marine View Drive Tacoma, WA 98422	X	X		Spent sandblast grit on ground throughout site. Marine railway sediments contaminated. Needs small boatyard permit.
**	Morningside Ditch No street address	X		Average particulate data for Morningside Drain shows no exceedances of sediment cleanup objectives for Hylebos Waterway.	
30	Murray Pacific Log Yard #1 3542 Lincoln Avenue	X	X		MTCA cleanup site. Implementing RI/FS.
31	Nordlund Boat Company, Inc. 1622 Marine View Drive Tacoma, WA 98421	X	X		Boat wash wastewater discharges to Hylebos waterway after passing through settling basin. Small Boatyard Permit is needed. Nordlund also has a site on Taylor Way (Mouth of Hylebos).

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE(a)
Potential, Probable, and Confirmed Sources(b)

Page 10
8/24/92

Map	List 1 No. (Potential Sources)	List 2 (Probable Sources)	List 3 (Confirmed Sources)	Reason Site is Not on List 3	Comments/Notes
32	Occidental - BPA Sludge Site 3702 Alexander Ave. Tacoma, WA 98421	x	pending		A potential source of arsenic to Fife Ditch. Sample results due 9/20/92.
33	Occidental - Marine View Drive Sludge Site	x		Existing information does not indicate that an enforcement action for source control is necessary at the Occidental Marine View Drive Sludge Site at this time.	Across Marine View Drive from General Metals. Trichloroethene and tetrachloroethene in ground water in sludge fill. Data do not show migration off-site.
34	Pacific Northwest Terminals 1749 Marine View Drive Tacoma, WA 98421			Problem chemicals not identified.	
/	Pan Pacific Trading 3502, 3452 Lincoln Avenue Tacoma, WA			No longer exists. Site is now Murray Pacific log yard.	
/	Pederson Oil 1622 Marine View Drive Tacoma, WA 98422			Office building.	On same property as Nordlund Boat.
8	Pennwalt Corporation 2901 Taylor Way Tacoma, WA 98421			This site is listed as Elf Atochem.	

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE(a)
Potential, Probable, and Confirmed Sources(b)

Page 11
8/24/92

Map	List 1	List 2	List 3	Reason Site is Not on List 3	Comments/Notes
No.	(Potential Sources)	(Probable Sources)	(Confirmed Sources)		
35	Petroleum Reclaiming Services, Inc	x	x		State Dangerous Waste cleanup action site.
	3003 Taylor Way				
	Tacoma, WA 98421				
36	Portac, Inc.			Discharges to Blair Waterway.	
	4215 East-West Rd.				
	Tacoma, WA 98421				
37	Puget Chemical Company			Discharges to Blair Waterway. Building	Included with Reichold Chemical cleanup.
	2160 Taylor Way			abandoned.	Building will be torn down by Reichold.
	Tacoma, WA 98421				
/	R.W. Investments			Discharges to Blair Waterway.	Same site as Western Turnings.
	(see Western Turnings)				
38	Reichold Chemicals			Discharges to Blair Waterway.	RCRA cleanup site.
	3320 Lincoln Avenue				
	Tacoma, WA 98421				
/	Republic Supply Company			Site is now APUTCO.	

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE(a)
Potential, Probable, and Confirmed Sources(b)

Page 12
8/24/92

Map : List 1		List 2	List 3	Reason Site is Not on List 3	Comments/Notes
No. : (Potential Sources)		(Probable Sources)	(Confirmed Sources)		
/ : Scott and From				Site not located. No address found.	
/ : Seaport Bark Supply				Listed as Murray Pacific Log Yard #1.	
: 3542 Lincoln Avenue					
: Tacoma, WA 98421					
39 : Strelch Brothers, Inc.				Problem chemicals not identified.	
: 1650 Marine View Drive					
: Tacoma, WA 98422					
40 : Superlon Plastics				Drains to Blair Waterway.	Soil contamination in basement. Referred for
: 2116 Taylor Way					initial MTCA or dangerous waste investigation
: Tacoma, WA 98421					(Ecology).
41 : Tacoma Bark Supply		x		Discharges to Hylebos Creek. See Hylebos	Site is now vacant.
: 1537 Marine View Drive E				Creek.	
: Tacoma, WA 98422					
42 : Tacoma Boatbuilding Co. Yard #1		x	x		NPDES permit to be issued September 1992.
: 1840 Marine View Drive					
: Tacoma, WA 98421					

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE(a)
Potential, Probable, and Confirmed Sources(b)

Page 13
8/24/92

Map	List 1	List 2	List 3	Reason Site is Not on List 3	Comments/Notes
No.	(Potential Sources)	(Probable Sources)	(Confirmed Sources)		
/	Tacoma Marine Electric 1622 Marine View Drive Tacoma, WA 98422			Problem chemicals not identified.	On same property as Nordlund Boat. Retail/office.
43	U.S. Gypsum Interiors 2301 Taylor Way Tacoma, WA 98421	x	x		Formerly U.S. Gypsum Company. Problem chemicals identified in seeps from the site. Ecology will encourage independent investigation to generate more information.
/	U.S. Gypsum Landfill U.S. Highway 99 Pierce Co., WA 98354			Drains to Hylebos Creek. Site cleaned up in 1984.	Ongoing monitoring shows groundwater contaminants are decreasing, approaching MTCA cleanup levels.
44	Upper Hylebos Property Puyallup Settlement Land Marine View Drive			Investigated under EPA/Ecology MOA with the Port and Tribe. Determined to require no further action.	To be transferred to the Puyallup Tribe. Site is next to Jones Goodell to the south.
45	Wasser Winters 1602 Marine View Drive Tacoma, WA 98422	x	x		MTCA cleanup site. Currently developing RI/FS.
/	Western Superior Structural Mfg. 6713 Pacific Highway East Fife, WA 98424			Drains to Hylebos Creek. See Hylebos Creek.	Formerly Western Engineering.

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
 COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE(a)
 Potential, Probable, and Confirmed Sources(b)

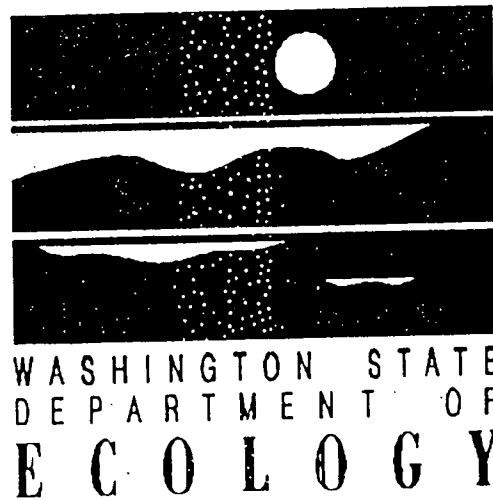
Page 14
 8/24/92

Map No.	List 1 (Potential Sources)	List 2 (Probable Sources)	List 3 (Confirmed Sources)	Reason Site is Not on List 3	Comments/Notes
46	Western Turnings, Inc. 2150 Taylor Way Tacoma, WA 98421			Discharges to Blair Waterway.	Out of business. Site not in use now.
47	Weyerhaeuser Lumber Co. 3401 Taylor Way Tacoma, WA 98421	x		Existing information shows enforcement action for source control not required at this time.	
48	Woodworth Gravel Pit/Asphalt Plant Norpoint Way Tacoma, WA 98422	x		Catch basins on Norpoint Way and behind Jones Chemical sampled. Existing information shows enforcement action for source control not required at this time.	Drainage is through Julia's Gulch and via pipe to the Morningside drain.
/	Yacht Doctors 1950-1/2 Marine View Dr Tacoma, WA 98422			Listed as Harbor Services.	

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORETIDEFLATS SUPERFUND SITE

FOOTNOTES

- (a) The Head of Hylebos Waterway is defined as that portion of Hylebos Waterway south and east of Lincoln Avenue.
- (b) Potential sources (List 1) were considered to be all sites with drainage to Hylebos Waterway. Sites in Hylebos Creek which received a General Notice Letter were also included on List 1. Sites were put on List 2 after inspections revealed they were probable sources of problem chemicals to the waterway. Sites were put on List 3 after sampling or further investigation showed that the site was an ongoing confirmed source of problem chemicals to Hylebos Waterway. Documentation for placing sites on List 3 is briefly described in the fifth column of this report. Additional detail is provided in Ecology's site files, inspection reports, and in a Head of Hylebos Problem Area inspection notebook maintained by the Ecology UBAT supervisor at the Southwest Regional Office. H
- (c) Additional problem chemicals or pathways may be present at sites. For source identification, Mouth and Head of Hylebos problem chemicals were combined.



HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE

List of Confirmed Sources

(List 3)

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE

Page 1

8/24/92

List 3 - Confirmed Sources

Map :	No. :	Site Name	Status	Contaminants(c)	Pathways
2	:	B & L Landfill	Cleanup Action under MTCA started 7/13/92. Completed by summer, 1993.	As, Cu, Pb, Zn	stormwater, groundwater
3	:	Blair Backup Property	EPA Cleanup Action Plan proposed for winter, 1992.	As, Cu, Pb, Zn	stormwater
7	:	Elf Atochem Log Yard	Cleanup construction under MTCA started 6/9/92. Completion expected by 10/92.	As, Cu, Pb, Zn	stormwater
8	:	Elf Atochem Main Facility	NPDES permit settled 7/22/92. MTCA cleanup treatment startup expected 8/92.	As, Cu	groundwater
10	:	Fife Ditch	Identify responsible parties for remediation of ditch sediments.	As, bis (2 ethylhexyl) phthalate	particulate transport
13	:	General Metals, Inc.	NPDES permit in effect for stormwater treatment system. Phase one of MTCA cleanup construction started 7/92.	PCBs, As, Cu, Pb, Zn	stormwater
17	:	Hylebos Creek	Problem chemicals not expected after cleanup is complete at Wasser Winters, Louisiana Pacific, B & L Landfill.	As	particulate transport via creek
18	:	Hylebos Marina	Issue small boatyard permit.	Cu, Zn	point source (boat wash)

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE

Page 2
8/24/92

List 3 - Confirmed Sources

Map No.	Site Name	Status	Contaminants(c)	Pathways
20	Jones-Goodell Corp.	Independent cleanup of grit expected. Issue small boatyard permit for boat maintenance facility.	Cu, Zn	sandblast grit behind bulkhead leaks to waterway
22	Kaiser Aluminum and Chemical Corp.	Upgraded NPDES permit being implemented. MTCA cleanup almost complete.	HPAH, LPAH	stormwater, wastewater discharge
25	Louisiana Pacific Log Yard	Final cleanup action plan expected by 9/92.	As, Cu, Pb, Zn	stormwater
27	Manke Lumber Company, Inc.	Ecology Water Quality Program will write stormwater NPDES permit. Toxics section will follow-up on LUST issues.	phenol, as, cu	stormwater
29	Modutech Marine, Inc.	Sandblast grit around site, in marine railway area, and under parking lot gravel. Independent cleanup expected. Issue small boatyard permit.	Cu, Zn	stormwater, shoreline sediments
30	Murray Pacific Log Yard #1	RI/FS currently underway.	As, Cu, Pb, Zn	stormwater
31	Nordlund Boat Company, Inc.	Issue small boatyard permit.	Cu, Zn	point source (boat wash)
35	Petroleum Reclaiming Services, Inc.	State dangerous waste cleanup underway. UBAT will coordinate and review materials.	As, Cd, Hg, BTEX, bis (2-ethylhexyl) phthalate	possible ditch sediments, possible groundwater

HEAD OF HYLEBOS WATERWAY PROBLEM AREA
COMMENCEMENT BAY NEARSHORE/TIDEFLATS SUPERFUND SITE

Page 3
8/24/92

List 3 - Confirmed Sources

: Map :	:	:	:	:
: No. : Site Name	: Status	: Contaminants(c)	: Pathways	:
: 42 : Tacoma Boatbuilding Co. Yard #1	: NPDES permit expected to be issued 9/92.	: As, Cu, Pb, Zn	: stormwater	:
: :	:	:	:	:
: :	:	:	:	:
: 43 : U.S. Gypsum Interiors	: Ecology will encourage independent investigation	: As, Cr, Cu, Pb, Sb, Zn	: groundwater seeps	:
: :	: to generate more information about contaminants	:	:	:
: :	: and pathways.	:	:	:
: 45 : Wasser Winters	: MTCA RI/FS underway.	: As, Cu, Pb, Zn	: stormwater	:
: :	:	:	:	:
: :	:	:	:	:

NOTE: Occidental-BPA Sludge Site from List 2 is a PENDING List 3 site. Lab results due 9/20/92 will determine if site is on List 3 for arsenic contamination to Fife Ditch.